

## EAST Search History

| Ref # | Hits  | Search Query                   | DBs                                    | Default Operator | Plurals | Time Stamp       |
|-------|-------|--------------------------------|--|------------------|---------|------------------|
| S1    | 1     | ("20050226132").PN.            | US-PGPUB;<br>USPAT                     | OR               | OFF     | 2006/06/06 08:32 |
| S2    | 99    | tatsuya.in. with inokuchi.in.  | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 08:32 |
| S3    | 291   | yoichiro.in. with sako.in.     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:57 |
| S4    | 34    | takashi.in. with kihara.in.    | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:42 |
| S5    | 69    | shunsuke.in. with furukawa.in. | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:46 |
| S6    | 24    | yoriki.in. with kanada.in.     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:50 |
| S7    | 27    | akiya.in. with saito.in.       | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:52 |
| S8    | 27    | toru.in. with aida.in.         | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:53 |
| S9    | 13    | tatsushi.in. with sano.in.     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:55 |
| S10   | 11    | toshihiko.in. with senno.in.   | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:56 |
| S11   | 16    | yoshinobu.in. with usui.in.    | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:57 |
| S12   | 42050 | ("369").CLAS.<br>,             | US-PGPUB;<br>USPAT                     | OR               | OFF     | 2006/06/06 08:35 |
| S13   | 50    | S2 and S12                     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:42 |
| S14   | 129   | S3 and S12                     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:57 |
| S15   | 30    | S5 and S12                     | US-PGPUB;<br>USPAT                     | OR               | ON      | 2006/06/06 10:47 |
| S17   | 1     | ("20040202082").PN.            | US-PGPUB;<br>USPAT                     | OR               | OFF     | 2006/06/06 11:41 |
| S19   | 2     | jp-2000106668-\$.did.          | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT | OR               | ON      | 2006/06/06 11:46 |
| S20   | 2     | jp-2002367282-\$.did.          | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT | OR               | ON      | 2006/06/06 11:47 |

## EAST Search History

|     |        |  |  |    |     |                  |
|-----|--------|--|--|----|-----|------------------|
| S21 | 2      | jp-09288864-\$.did.  | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2006/06/06 11:47 |
| S22 | 1673   | (369/275.3).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:06 |
| S23 | 162    | (369/47.19).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:06 |
| S24 | 462    | (369/53.21).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:06 |
| S25 | 209    | (369/59.24).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:06 |
| S26 | 148    | (369/53.36).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:06 |
| S27 | 690    | (369/59.25).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/06 15:07 |
| S28 | 2865   | S22 S23 S24 S25 S26 S27  | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:07 |
| S29 | 27056  | sony.as.   | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:08 |
| S30 | 340    | S28 and S29  | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:25 |
| S31 | 33188  | (error adj correct\$3 adj code) or ecc<br>or circ or circ4 or circ7      | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:29 |
| S32 | 1451   | dsv or (digital adj sum adj variation)                                   | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:36 |
| S33 | 132512 | (encod\$3 and decod\$3) or endec   | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:31 |
| S34 | 62     | S31 and S32 and S33 and S28  | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:37 |
| S35 | 1537   | dsv or (digital adj sum adj variation)<br>or (digital adj sum adj value) | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/06/06 15:36 |
| S36 | 1673   | (369/275.3).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |
| S37 | 162    | (369/47.19).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |
| S38 | 462    | (369/53.21).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |
| S39 | 209    | (369/59.24).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |
| S40 | 148    | (369/53.36).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |
| S41 | 690    | (369/59.25).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/06/07 09:55 |

## EAST Search History

|     |        |   |                    |    |     |                  |
|-----|--------|---|--------------------|----|-----|------------------|
| S42 | 2865   | S36 S37 S38 S39 S40 S41   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 09:55 |
| S43 | 33188  | (error adj correct\$3 adj code) or ecc<br>or circ or circ4 or circ7   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 10:36 |
| S44 | 132512 | (encod\$3 and decod\$3) or endec  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 09:55 |
| S45 | 1537   | dsv or (digital adj sum adj variation)<br>or (digital adj sum adj value)  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 09:55 |
| S46 | 62     | S43 and S45 and S44 and S42   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 10:31 |
| S47 | 32     | S43 and S45 and S44 and S36   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 10:31 |
| S48 | 17     | S43 and S45 and S44 and S39   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 10:31 |
| S49 | 18     | S43 and S45 and S44 and S41   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 10:31 |
| S50 | 20     | ((error adj correct\$3 adj code) or<br>ecc or circ or circ4 or circ7) near8<br>modulat\$3) and S37  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:00 |
| S51 | 2      | ((error adj correct\$3 adj code) or<br>ecc or circ or circ4 or circ7) near8<br>mix\$3) and S37  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:03 |
| S52 | 59     | ((error adj correct\$3 adj code) or<br>ecc or circ or circ4 or circ7) near8<br>(mix\$3 or modulat\$3)) and S38                              | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:04 |
| S53 | 3980   | (plural\$3 or multiple or pair or<br>second) near6 S43  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:07 |
| S54 | 17     | S53 and S38   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:23 |
| S55 | 38     | S53 and S36 and (S45 or dc)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:30 |
| S56 | 19     | S53 and S39   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:27 |
| S57 | 21     | S53 and S40   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:30 |
| S58 | 34     | S53 and S41 and (S45 or dc)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:35 |
| S59 | 42050  | ("369").CLAS.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/06/07 11:35 |
| S60 | 174    | S53 and S59 and (S45 or dc)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:35 |
| S61 | 38722  | (S45 or dc) near4 (fluctuat\$4 or<br>var\$7 or unstab\$9 or ("not" adj<br>constant) or deviat\$4 or alternat\$3<br>or diverg\$3 or rang\$3) | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:41 |

## EAST Search History

|     |       |   |                    |    |     |                  |
|-----|-------|---|--------------------|----|-----|------------------|
| S62 | 119   | S61 and S53   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:46 |
| S63 | 26    | S62 and S59   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 11:42 |
| S64 | 172   | (714/756).CCLS.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/06/07 15:07 |
| S65 | 238   | (714/52).CCLS.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/06/07 15:03 |
| S66 | 2     | S64 and S61   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 15:08 |
| S67 | 65    | S64 and S53   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:37 |
| S68 | 432   | S53 near10 (mix\$5 or interleav\$3 or<br>modulat\$3 or alternat\$3) | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:19 |
| S69 | 36408 | ("714").CLAS.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/06/07 16:19 |
| S70 | 210   | S53 and S69 and (S45 or dc)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:20 |
| S71 | 46    | S68 and S69 and (S45 or dc)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:20 |
| S72 | 32    | S65 and S53   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:42 |
| S73 | 16    | takaro.in. with mori.in.  | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:47 |
| S74 | 12    | kazumi.in. with iwata.in.   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:47 |
| S75 | 2657  | victor.as. with company.as.   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:55 |
| S76 | 42    | S75 and S53   | US-PGPUB;<br>USPAT | OR | ON  | 2006/06/07 16:55 |